Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 22/01/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 17-01-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	15/01/2020	22/01/2020	149.26 X 150.37 X 151.39	22445	**8.624**	416.3	18.5	18.7
2	Drain Side Wall Concrete	M20	15/01/2020	22/01/2020	150.42 X 150.08 X 149.28	22574	**8.078**	420.7	18.6	
3	Drain Side Wall Concrete	M20	15/01/2020	22/01/2020	149.06 X 150.03 X 151.86	22363	**8.995**	422.6	18.9	

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 22/01/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 17-01-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	15/01/2020	22/01/2020	149.58 X 151.05 X 150.02	22594	**8.624**	423.0	18.7	18.5
2	Drain Side Wall Concrete	M20	15/01/2020	22/01/2020	149.88 X 151.98 X 151.28	22778	**8.078**	412.0	18.1	
3	Drain Side Wall Concrete	M20	15/01/2020	22/01/2020	150.31 X 151.27 X 151.35	22738	**8.995**	426.9	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 07/02/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 12-01-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	10/01/2020	07/02/2020	149.04 X 150.05 X 151.86	22364	**8.552**	524.6	23.5	23.1
2	Drain Bottom Slab Concrete	M20	10/01/2020	07/02/2020	151.36 X 150.66 X 151.05	22804	**8.882**	514.1	22.5	
3	Drain Bottom Slab Concrete	M20	10/01/2020	07/02/2020	151.13 X 151.82 X 151.44	22946	**8.732**	533.3	23.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 07/02/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 12-01-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	10/01/2020	07/02/2020	150.39 X 151.54 X 149.62	22790	**8.552**	542.1	23.8	23.2
2	Drain Bottom Slab Concrete	M20	10/01/2020	07/02/2020	150.08 X 149.80 X 151.98	22482	**8.882**	498.4	22.2	
3	Drain Bottom Slab Concrete	M20	10/01/2020	07/02/2020	149.53 X 151.81 X 149.06	22701	**8.732**	538.5	23.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 07/02/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 12-01-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	10/01/2020	07/02/2020	150.33 X 150.46 X 150.69	22618	**8.552**	529.2	23.4	23.4
2	Drain Bottom Slab Concrete	M20	10/01/2020	07/02/2020	149.41 X 151.71 X 150.87	22667	**8.882**	519.4	22.9	
3	Drain Bottom Slab Concrete	M20	10/01/2020	07/02/2020	150.54 X 150.90 X 151.94	22717	**8.732**	540.1	23.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 12/02/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 17-01-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	15/01/2020	12/02/2020	150.07 X 151.75 X 149.39	22773	**8.552**	535.2	23.5	23.1
2	Drain Side Wall Concrete	M20	15/01/2020	12/02/2020	149.86 X 150.44 X 149.39	22545	**8.882**	504.6	22.4	
3	Drain Side Wall Concrete	M20	15/01/2020	12/02/2020	151.65 X 149.69 X 150.07	22701	**8.732**	528.7	23.3	

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Lab ID : **CP-2020-05-26-87** **Date: 12/02/2020**

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Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 17-01-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	15/01/2020	12/02/2020	149.74 X 149.96 X 149.70	22454	**8.552**	520.6	23.2	23.1
2	Drain Side Wall Concrete	M20	15/01/2020	12/02/2020	151.75 X 149.69 X 150.80	22715	**8.882**	511.7	22.5	
3	Drain Side Wall Concrete	M20	15/01/2020	12/02/2020	150.61 X 150.27 X 149.58	22632	**8.732**	531.1	23.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 12/02/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 17-01-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	15/01/2020	12/02/2020	151.85 X 149.39 X 151.15	22684	**8.552**	543.3	24.0	23.4
2	Drain Side Wall Concrete	M20	15/01/2020	12/02/2020	151.20 X 149.71 X 150.50	22637	**8.882**	508.8	22.5	
3	Drain Side Wall Concrete	M20	15/01/2020	12/02/2020	149.32 X 150.85 X 150.11	22525	**8.732**	532.2	23.6	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 02/02/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 06-01-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	05/01/2020	02/02/2020	151.34 X 151.31 X 149.04	22899	8.371	302	13	13.2
2	PCC	M10	05/01/2020	02/02/2020	150.16 X 151.96 X 149.90	22819	8.037	307	13	
3	PCC	M10	05/01/2020	02/02/2020	149.26 X 149.35 X 149.01	22293	8.291	292	13	

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Lab ID : **CP-2020-05-26-87** **Date: 12/01/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 06-01-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	8.6	189	8.4	8.0
2	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	8.2	160	7.2	
3	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	7.8	187	8.3	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 02/02/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 06-01-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	05/01/2020	02/02/2020	149.74 X 150.87 X 151.68	22591	8.454	316	14	13.6
2	PCC	M10	05/01/2020	02/02/2020	149.55 X 149.60 X 150.42	22373	7.947	298	13	
3	PCC	M10	05/01/2020	02/02/2020	149.14 X 149.57 X 151.09	22307	8.107	304	14	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 12/01/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 06-01-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	8.1	190.8	8.5	8.2
2	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	8.3	174.5	7.6	
3	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	8.5	191.2	8.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 02/02/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 06-01-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	05/01/2020	02/02/2020	149.71 X 150.03 X 149.11	22461	8.204	308	14	13.6
2	PCC	M10	05/01/2020	02/02/2020	151.92 X 151.26 X 149.67	22979	8.442	305	13	
3	PCC	M10	05/01/2020	02/02/2020	151.43 X 151.42 X 150.96	22930	8.343	315	14	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 12/01/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 06-01-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	8.2	180.6	8.0	8.1
2	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	7.9	168.9	7.5	
3	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	8.4	198.4	8.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 02/02/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 06-01-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	05/01/2020	02/02/2020	150.00 X 151.40 X 150.38	22710	7.969	306	13	13.5
2	PCC	M10	05/01/2020	02/02/2020	151.45 X 151.15 X 149.49	22892	8.264	306	13	
3	PCC	M10	05/01/2020	02/02/2020	149.92 X 151.24 X 150.65	22673	8.302	308	14	

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Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 06-01-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	05/01/2020	02/02/2020	151.08 X 150.21 X 150.76	22694	8.391	298	13	13.3
2	PCC	M10	05/01/2020	02/02/2020	150.39 X 150.86 X 149.53	22688	8.052	300	13	
3	PCC	M10	05/01/2020	02/02/2020	149.75 X 149.91 X 150.88	22450	8.456	302	13	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 12/01/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 06-01-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	8.2	197	8.7	8.14
2	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	8.0	174	7.6	
3	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	8.3	180	8.0	

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-05-26-87**	**Date: 29-12-19**
Project Name	:	Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts	
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.	
Customer's Reference	:	BBMP/EE/BTP/WO/151/2019-20	
Date of Receipt	:	26-12-19	
Sample Type	:	40mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties	
Date of test	:	26-12-19	

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	7254	7468	49.8	50.2	30-70
4	10 mm	4442	11910	79.4	20.6	10-35
5	4.75 mm	2685	14595	97.3	2.7	0-5
6	Pan	405	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-05-26-87** **Date: 29-12-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.17	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-05-26-87** **Date: 29-12-19**
Project Name	:	Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/151/2019-20
Date of Receipt	:	26-12-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-12-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	237	237	4.7	95.3	90-100
3	10 mm	2544	2781	55.6	44.4	25-55
4	4.75 mm	2107	4888	97.8	2.2	0-10
5	Pan	112	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-05-26-87** **Date: 29-12-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.19	–
7	Aggregate crushing Value(%)	25.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-05-26-87** **Date: 29-12-19**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 26-12-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 26-12-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	26	26	2.6	97.4	90-100	90-100	90-100	95-100
3	2.36 mm	51	77	7.7	92.3	60-95	75-100	85-100	95-100
4	1.18 mm	238	315	31.5	68.5	30-70	55-90	75-100	90-100
5	600 micron	201	516	51.6	48.4	15-34	35-59	60-79	80-100
6	300 micron	204	720	72.0	28.0	5-20	8-30	12-40	15-50
7	150 micron	192	912	91.2	8.8	0-10	0-10	0-10	0-15
8	Pan	88	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-05-26-87** **Date: 29-12-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.51	_
2	Specific Gravity	2.58	_
3	Material finer than 75 micron(%)	6.7	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
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TEST RESULTS OF STEEL

Lab ID : **CP-2020-05-26-87** **Date: 28-12-19**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 26-12-19

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 26-12-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2020-05-26-87** **Date: 30-12-19**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 26-12-19

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 26/12/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 07/02/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 12-01-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	10/01/2020	07/02/2020	151.92 X 151.81 X 149.46	23063	**8.552**	531.6	23.0	23.2
2	Drain Bottom Slab Concrete	M20	10/01/2020	07/02/2020	150.57 X 149.80 X 151.71	22556	**8.882**	511.1	22.7	
3	Drain Bottom Slab Concrete	M20	10/01/2020	07/02/2020	150.26 X 150.81 X 151.19	22660	**8.732**	540.8	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 07/02/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 12-01-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	10/01/2020	07/02/2020	151.26 X 151.32 X 149.22	22889	**8.552**	540.6	23.6	23.1
2	Drain Bottom Slab Concrete	M20	10/01/2020	07/02/2020	151.59 X 150.20 X 151.22	22769	**8.882**	508.6	22.3	
3	Drain Bottom Slab Concrete	M20	10/01/2020	07/02/2020	151.41 X 149.46 X 149.94	22629	**8.732**	527.6	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 07/02/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 12-01-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	10/01/2020	07/02/2020	149.20 X 151.09 X 151.01	22543	**8.552**	537.2	23.8	23.5
2	Drain Bottom Slab Concrete	M20	10/01/2020	07/02/2020	149.65 X 151.96 X 150.90	22741	**8.882**	522.5	23.0	
3	Drain Bottom Slab Concrete	M20	10/01/2020	07/02/2020	150.39 X 150.00 X 151.48	22559	**8.732**	532.6	23.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 22/01/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 17-01-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	15/01/2020	22/01/2020	150.32 X 150.55 X 151.28	22631	**8.624**	427.8	18.9	18.6
2	Drain Side Wall Concrete	M20	15/01/2020	22/01/2020	149.76 X 151.03 X 150.33	22619	**8.078**	425.0	18.8	
3	Drain Side Wall Concrete	M20	15/01/2020	22/01/2020	150.42 X 150.56 X 150.51	22647	**8.995**	412.4	18.2	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 12/02/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 17-01-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	15/01/2020	12/02/2020	149.13 X 149.11 X 150.33	22236	**8.552**	518.5	23.3	23.1
2	Drain Side Wall Concrete	M20	15/01/2020	12/02/2020	151.52 X 151.55 X 151.95	22963	**8.882**	525.0	22.9	
3	Drain Side Wall Concrete	M20	15/01/2020	12/02/2020	151.20 X 149.76 X 149.71	22644	**8.732**	524.6	23.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 22/01/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 17-01-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	15/01/2020	22/01/2020	149.26 X 149.93 X 149.36	22379	**8.624**	418.1	18.7	18.4
2	Drain Side Wall Concrete	M20	15/01/2020	22/01/2020	151.47 X 150.88 X 150.36	22853	**8.078**	418.4	18.3	
3	Drain Side Wall Concrete	M20	15/01/2020	22/01/2020	149.45 X 151.13 X 149.23	22586	**8.995**	409.7	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 12/02/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 17-01-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	15/01/2020	12/02/2020	149.39 X 151.73 X 150.29	22667	**8.552**	534.5	23.6	23.2
2	Drain Side Wall Concrete	M20	15/01/2020	12/02/2020	151.47 X 150.58 X 151.22	22808	**8.882**	517.9	22.7	
3	Drain Side Wall Concrete	M20	15/01/2020	12/02/2020	150.29 X 151.42 X 150.17	22757	**8.732**	528.8	23.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 22/01/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 17-01-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	15/01/2020	22/01/2020	151.57 X 151.87 X 149.82	23019	8.624	431.6	18.7	18.7
2	Drain Side Wall Concrete	M20	15/01/2020	22/01/2020	150.45 X 151.01 X 150.46	22720	8.078	431.6	19.0	
3	Drain Side Wall Concrete	M20	15/01/2020	22/01/2020	149.09 X 150.87 X 150.28	22494	8.995	411.2	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 12/02/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 17-01-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	15/01/2020	12/02/2020	149.64 X 151.49 X 150.01	22670	**8.552**	542.7	23.9	23.4
2	Drain Side Wall Concrete	M20	15/01/2020	12/02/2020	151.71 X 150.65 X 150.81	22856	**8.882**	519.8	22.7	
3	Drain Side Wall Concrete	M20	15/01/2020	12/02/2020	150.93 X 151.61 X 150.46	22882	**8.732**	538.8	23.5	

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 12/01/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 06-01-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	7.7	186	8.2	8.01
2	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	8.1	169	7.6	
3	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	8.2	188	8.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 02/02/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 06-01-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	05/01/2020	02/02/2020	151.87 X 149.26 X 150.09	22667	8.249	314	14	13.8
2	PCC	M10	05/01/2020	02/02/2020	150.41 X 150.01 X 151.20	22563	8.159	308	14	
3	PCC	M10	05/01/2020	02/02/2020	151.32 X 150.61 X 150.86	22791	8.018	319	14	

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Lab ID : **CP-2020-05-26-87** **Date: 12/01/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 06-01-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	8	196	9	8.3
2	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	8	161	7	
3	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	8	204	9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 02/02/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 06-01-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	05/01/2020	02/02/2020	149.28 X 151.27 X 149.51	22583	7.985	310	14	13.4
2	PCC	M10	05/01/2020	02/02/2020	151.50 X 149.06 X 150.94	22584	8.334	297	13	
3	PCC	M10	05/01/2020	02/02/2020	151.10 X 150.57 X 150.68	22751	7.975	304	13	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 12/01/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 06-01-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	8.4	185	8.3	8.0
2	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	8.2	172	7.5	
3	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	8.4	186	8.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 02/02/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 06-01-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	05/01/2020	02/02/2020	150.52 X 150.52 X 151.28	22657	8.169	309	14	13.6
2	PCC	M10	05/01/2020	02/02/2020	149.26 X 149.73 X 151.35	22348	8.535	303	14	
3	PCC	M10	05/01/2020	02/02/2020	150.28 X 151.80 X 151.11	22812	8.248	307	13	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 12/01/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 06-01-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	8.2	189.2	8.4	8.3
2	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	7.9	171.2	7.5	
3	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	7.8	202.8	8.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 02/02/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 06-01-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	05/01/2020	02/02/2020	150.24 X 149.76 X 149.98	22500	8.377	307	14	13.5
2	PCC	M10	05/01/2020	02/02/2020	150.33 X 149.70 X 150.38	22505	8.377	303	13	
3	PCC	M10	05/01/2020	02/02/2020	150.50 X 149.16 X 151.17	22448	8.034	297	13	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 12/01/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 06-01-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/01/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	8.2	187.5	8.4	8.1
2	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	7.9	171.0	7.5	
3	PCC	M10	05/01/2020	12/01/2020	150.22 X 150.54 X 150.55	22614	7.7	183.7	8.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 02/02/2020**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 06-01-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/02/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M10	05/01/2020	02/02/2020	150.87 X 151.09 X 149.72	22796	8.221	303	13	13.4
2	PCC	M10	05/01/2020	02/02/2020	150.73 X 149.12 X 150.41	22476	8.573	295	13	
3	PCC	M10	05/01/2020	02/02/2020	149.59 X 150.33 X 149.79	22488	8.250	306	14	

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2020-05-26-87** **Date: 30-12-19**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 26-12-19

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 26/12/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST RESULTS OF STEEL

Lab ID : **CP-2020-05-26-87** **Date: 28-12-19**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 26-12-19

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 26-12-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.395	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.618	528	672	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-05-26-87** **Date: 14-11-19**
Project Name	:	Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/151/2019-20
Date of Receipt	:	26-12-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	12-11-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	_
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	_
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	180 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-05-26-87** **Date: 10-12-19**
Project Name	:	Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/151/2019-20
Date of Receipt	:	26-12-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	12-11-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.0N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-05-26-87** **Date: 14-11-19**
Project Name	:	Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/151/2019-20
Date of Receipt	:	26-12-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	7254	7468	49.8	50.2	30-70
4	10 mm	4442	11910	79.4	20.6	10-35
5	4.75 mm	2685	14595	97.3	2.7	0-5
6	Pan	405	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-05-26-87** **Date: 14-11-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.17	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-05-26-87** **Date: 14-11-19**
Project Name	:	Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/151/2019-20
Date of Receipt	:	26-12-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	237	237	4.7	95.3	90-100
3	10 mm	2544	2781	55.6	44.4	25-55
4	4.75 mm	2107	4888	97.8	2.2	0-10
5	Pan	112	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-05-26-87** **Date: 14-11-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.53	_
5	Bulk Density(Compacted) (Kg/l)	1.57	_
6	Water Absorption(%)	0.19	_
7	Aggregate crushing Value(%)	25.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-05-26-87** **Date: 14-11-19**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 26-12-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 11-11-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	26	26	2.6	97.4	90-100	90-100	90-100	95-100
3	2.36 mm	51	77	7.7	92.3	60-95	75-100	85-100	95-100
4	1.18 mm	238	315	31.5	68.5	30-70	55-90	75-100	90-100
5	600 micron	201	516	51.6	48.4	15-34	35-59	60-79	80-100
6	300 micron	204	720	72.0	28.0	5-20	8-30	12-40	15-50
7	150 micron	192	912	91.2	8.8	0-10	0-10	0-10	0-15
8	Pan	88	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-05-26-87**

Date: 14-11-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.51	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	6.7	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 16/11/2019**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 12-01-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	10/01/2020	17/01/2020	150.36 X 149.02 X 151.57	22407	**8.624**	418.2	18.7	18.4
2	Drain Bottom Slab Concrete	M20	10/01/2020	17/01/2020	149.42 X 150.94 X 149.11	22553	**8.078**	410.3	18.2	
3	Drain Bottom Slab Concrete	M20	10/01/2020	17/01/2020	151.63 X 150.33 X 151.13	22794	**8.995**	419.5	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 16/11/2019**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 12-01-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	10/01/2020	17/01/2020	149.10 X 151.21 X 151.11	22546	**8.624**	423.1	18.8	18.6
2	Drain Bottom Slab Concrete	M20	10/01/2020	17/01/2020	150.28 X 150.90 X 150.85	22677	**8.078**	427.4	18.8	
3	Drain Bottom Slab Concrete	M20	10/01/2020	17/01/2020	151.63 X 149.07 X 150.70	22604	**8.995**	411.0	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-05-26-87** **Date: 16/11/2019**

Project Name : Providing new borewells and CC Roads. Drains developments in Rachenahalli and other adjusted layouts

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road , 17th "C" Main Road , 3rd "Y" Block , Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/151/2019-20

Date of Receipt : 12-01-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	10/01/2020	17/01/2020	150.79 X 151.10 X 149.28	22784	**8.624**	419.9	18.4	18.6
2	Drain Bottom Slab Concrete	M20	10/01/2020	17/01/2020	150.33 X 150.79 X 151.46	22669	**8.078**	426.2	18.8	
3	Drain Bottom Slab Concrete	M20	10/01/2020	17/01/2020	149.08 X 150.85 X 149.04	22488	**8.995**	417.7	18.6	

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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FOR CIVIL Pro.

R KARTHIK ~~RECHAN~~
Authorized Signatory
Quality Manager

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****End of Report****

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26